

Dec 19<sup>th</sup> 1881.

To Hon A London Snowden

Superintendent U.S Mint at Phil<sup>a</sup>

Dear Sir

In reply to your communication of Dec 8  
as to the operations of the Engine and Electric  
Machines, The effect of light, and a comparison  
between the Electric and Gas lights as illumi-  
nators.

I would say: first, the engines which supply  
the electric machines with motion, is 9 inch  
diam. of cylinder, 16 inch stroke of piston 60 lbs  
pressure on boilers making 280 turns per minute  
equal to about 60 horse power. After having  
some defects remedied, I find it in first  
class order fully capable of giving us all the  
power we want for the Electric machines in  
use. The shafting, counter-shafting and pulleys  
transmitting the motion and power to the  
Electric machines is first class in every  
particular



The machines for generating the Electric light are four in number, two (2) for the [arc] and two (2) for the Incandescent lights—one of the machines for incandescent is a regulator

The Ark light machines furnishes electricity for ten lamps all of which we have in operation and in my opinion we could add one more lamp with safety. The Incandescent machines furnish light for 60 lamps and if necessary could add three more lamps, all of which are in elegant working order and gives a far superior light to gas. In the Adjusting room where the Incandescent light is used all of the Ladies with one or two exceptions prefer this light and think it is a benefit instead of an injury to the eyes.

The Ark lights in the different rooms are found to be superior to any lights used and for seeing metal on the floor of the Rolling room is far superior to daylight



And would say that the men generally wish that your Honor would retain this light in preference to Gas

I wish to bring to your notice that a few careless persons leave the gas burning when the Electric light is in use and an order issued from your office would overcome this trouble

And in connection with this subject I would like to bring to your consideration two persons, Philip Dickel and Samuel Hines. Dickel is at the engine now is a very careful steady man would like it if you could consistantly advance his pay. Saml Hines it has put a gratedeal more work on him would ask for him the same favorable consideration. All of which I submit to you hoping I have made it plain

I remain Yours Truly  
John L McGinnis  
Chief Engineer



U. S. Mint  
Philadelphia  
Dec. 19/81

John L. McQuinn  
Chief Engineer

Report on the  
Electric Light &  
Apparatus.

Recd. Dec. 19<sup>th</sup> 1881.

[Abstract:] Report on the Electric Light & Apparatus.

December 19, 1881

To Hon. A. Loudon Snowden  
Superintendent U.S. Mint at Phila.

Dear Sir

In reply to your communication of Dec. 8 as to the operations of the Engine and Electric Machines, the effect of light, and a comparison between the Electric and Gas lights as illuminators.

I would say: first, the engines which supplies the electric machines with motion, is 9 inch diam. of cylinder, 16 inch stroke of piston 60 lbs. pressure on boilers making 280 turns per minute equal to about 60 horse power. After having some defects remedied, I find it in first class order fully capable of giving us all the power we want for the Electric Machines in use. The shafting, counter & shafting and pulleys transmitting the motion and power to the Electric Machines is first class in every particular.

The machines for generating the Electric light are four in number, two (2) for the [arc] and two (2) for the Incandescent lights – one of the machines for incandescent is a regulator.

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The Ark lights in the different rooms are found to be superior to any lights used and for seeing metal on the floor of the Rolling room is far superior to day light and would say that the men generally wish that your Honor would retain this light in preference to Gas.

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I remain yours Truly  
John McGinnis  
Chief Engineer